Southern Nuclear

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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC 2.3.09.02a [Index Number 421]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), the purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 4 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.3.09.02a [Index Number 421]. This ITAAC confirms that the hydrogen monitors identified in Table 2.3.9-1 are powered by the non-Class 1E dc and UPS System.

The closure process for this ITAAC is based on the guidance described in NEI 08-01, “Industry Guideline for the ITAAC Closure Process under 10 CFR Part 52,” which was endorsed by the NRC in Regulatory Guide 1.215.

This letter contains no new NRC regulatory commitments. Southern Nuclear Operating Company (SNC) requests NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact Kelli Roberts at 706-848-6991.

Respectfully submitted,

Jamie Coleman

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Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.09.02a [Index Number 421]

JMC/CSS/sfr

cc: Regional Administrator, Region ll
Director, Office of Nuclear Reactor Regulation (NRR)
Director, Vogtle Project Office NRR
Senior Resident Inspector – Vogtle 3 & 4

Southern Nuclear Operating Company
ND-23-0153
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.09.02a [Index Number 421]

ITAAC Statement

Design Commitment

2.a) The hydrogen monitors identified in Table 2.3.9-1 are powered by the non-Class 1E dc and UPS system.

Inspections, Tests, Analyses

Testing will be performed by providing a simulated test signal in each power group of the non-Class 1E dc and UPS system.

Acceptance Criteria

A simulated test signal exists at the hydrogen monitors identified in Table 2.3.9-1 when the non-Class 1E dc and UPS system is provided the test signal.

ITAAC Determination Basis

Testing is performed on the hydrogen monitors identified in the VEGP Unit 4 COL Appendix C Table 2.3.9-1 (Attachment A) to demonstrate they are powered from the non-Class 1E dc and Uninterruptible Power Supply (UPS) system (EDS). This ITAAC performs testing on the hydrogen monitors identified in Attachment A by providing a simulated test signal in the EDS supplying power to the hydrogen monitors.

The Unit 4 Construction Work Packages identified in Reference 1 document completion of power verification activities from the EDS uninterruptible power supply (UPS) distribution panel to the hydrogen monitors identified in Attachment A. Reference 1 first verifies that power supply cables/wiring are installed and terminated from the applicable EDS UPS power distribution panels to the hydrogen monitors identified in Attachment A using approved construction drawings and cable/wiring termination documentation. Reference 1 then confirms, via cable/wiring termination inspection documentation, that continuity testing was performed on each of the installed cables/wiring to confirm current flow within the installed cable/wiring. The combination of cable/wiring installation and termination verification, with the installed cable/wiring continuity testing, confirms that the hydrogen monitors identified in Attachment A are powered by their respective EDS power supply.

The Unit 4 Construction Work Packages documented in Reference 1 confirm that a simulated test signal exists at the hydrogen monitors identified in Table 2.3.9-1 when the EDS is provided the test signal.

Reference 1 is available for NRC inspection, as well as the Unit 4 ITAAC 2.3.09.02a Completion Package (Reference 2).

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all findings pertaining to the subject ITAAC and associated corrective actions. This review found there are no relevant ITAAC findings associated with this ITAAC.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.09.02a was performed for VEGP Unit 4 and that the prescribed acceptance criteria were met.

Systems, structures, and components verified as part of this ITAAC are being maintained in their as-designed, ITAAC compliant condition in accordance with approved plant programs and procedures.

References (available for NRC inspection)

1. SV4-VLS-ITR-800421 Rev0 “Unit 4 Containment Hydrogen Control System (VLS) Hydrogen Monitors Signaled from each Power Group”
2. 2.3.09.02a-U4-CP-Rev0, “ITAAC Completion Package”

Attachment A

COL Appendix C Table 2.3.9-1

Table 2.3.9-1		
Equipment	**Tag No.**	**Display**
Containment Hydrogen Monitor	VLS-001	Yes
Containment Hydrogen Monitor	VLS-002	Yes
Containment Hydrogen Monitor	VLS-003	Yes